



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CML 18.0021X

Issue No: 0

Certificate history:

Issue No. 0 (2018-02-21)

Status: **Current**

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Date of Issue: **2018-02-21**

Applicant: **Index Elektro B.V.**  
Harregatplein 15,  
3214 VP Zuidland  
**The Netherlands**

Equipment: **Ex d control and distribution boxes type INDEX.x.xx.xxxx.x**

*Optional accessory:*

Type of Protection: **Flameproof (db), Intrinsic Safety [ia Ga] [ib Gb], Dust Ignition Protection (tb)**

Marking:

Ex db [ia Ga] IIB T4/5/6 Gb  
Ex db [ia Ga] IIC T4/5/6 Gb  
Ex db [ia Ga] IIB+H2 T4/5/6 Gb  
Ex db [ib Gb] IIB T4/5/6 Gb  
Ex db [ib Gb] IIC T4/5/6 Gb  
Ex db [ib Gb] IIB+H2 T4/5/6 Gb  
Ex db IIB T4/5/6 Gb  
Ex db IIB+H2 T4/5/6 Gb  
Ex db IIC T4/5/6 Gb  
Ex tb IIIC T80/95/130°C Db

Ta = 40/-20°C to +40/80°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

R C Marshall

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*Date:*

2018-02-21

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Certification Management Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
United Kingdom





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Manufacturer: **Index Elektro B.V.**  
Harregatplein 15,  
3214 VP Zuidland  
**The Netherlands**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/CML/ExTR16.0148/00](#)

Quality Assessment Report:

[GB/CML/QAR15.0011/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Ex d control and distribution boxes are ranges of flameproof enclosures that may be manufactured from aluminium, steel or stainless steel. The enclosures are based on component approved enclosures and can be fitted with a wide range of electrical equipment, controls, indicators and terminals depending upon the application. There are options for windows on some enclosures.

Refer to Annex for Conditions of Manufacture.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for Conditions of Use.

### Annex:

[IECEX CML 18.0021X Issue 0 Certificate Annex.pdf](#)

**Annexe to:** IECEx CML 18.0021X Issue 0  
**Applicant:** Index Elektro B.V.  
**Apparatus:** Ex d control and distribution boxes type  
INDEX.x.xx.xxxx.x



## Description

The Ex d control and distribution boxes are ranges of flameproof enclosures that may be manufactured from aluminium, steel or stainless steel. The enclosures are based on component approved enclosures and can be fitted with a wide range of electrical equipment, controls, indicators and terminals depending upon the application. There are options for windows on some enclosures.

## Conditions of Manufacturer

The following are conditions of manufacture:

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The control and distribution boxes incorporate component enclosures. Each component enclosure has an associated equipment enclosure certificate. The maximum power rating of the control and distribution boxes shall not exceed the power rating shown on the respective equipment enclosure certificate.

## Conditions of Certification

The following conditions relate to safe installation and/or use of the equipment.

- i. For enclosure types INDEX.C.CT.xxxx, flamepath retaining screws shall be A2-70.
- ii. For enclosure types INDEX.C.CT.xxxx, with temperature class T5, cables suitable for temperatures of at least 90°C shall be used.
- iii. For enclosure types INDEX.B.CT.xxx, flamepath retaining screws shall be A2-70.
- iv. For enclosure types INDEX.B.CO.xxx, the cover and body shall be fixed by stainless steel screws quality A2-70.
- v. For enclosure types INDEX.B.AS.XXX, INDEX.B.AS.XXX.x and INDEX.B.CO.xxx, the width of the flameproof joints is greater than the values specified in the tables of IEC 60079-1. Therefore, the flameproof joints are not intended to be repaired or modified by the end user.
- vi. For enclosure types INDEX.B.AS.XXX.x ending in 91 or 93, fasteners securing flameproof joints shall be A4-70, for all other models, of enclosure types INDEX.B.AS.XXX.x, fasteners shall be A2-70.
- vii. For enclosure types INDEX.B.AS.XXX.x fitted with a window, shall be installed in areas that are considered to be low risk of impact.
- viii. The widths of the flameproof joints for command and signalling units type DP/DFP and RS/RX fitted are greater than those specified in tables of IEC 60079-1. Therefore, the flameproof joints are not intended to be repaired or modified by the end user.

Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port  
CH65 4LZ

T +44 (0) 151 559 1160  
E info@cmllex.com

[www.cmllex.com](http://www.cmllex.com)

Company Reg No. 8554022 VAT No. GB163023642

